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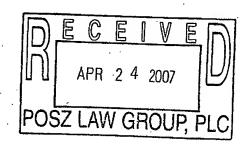
JUN 2.9 2007 FILING DATE AMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION NO. 01-527 7361 11/21/2003 10/717,902 Kenichi Ao 23400 7590 04/23/2007 **EXAMINER** POSZ LAW GROUP, PLC LINDSAY JR, WALTER LEE 12040 SOUTH LAKES DRIVE SUITE 101 ART UNIT PAPER NUMBER RESTON, VA 20191 2812

SHORTENED STATUTORY PERIOD OF RESPONSE - MAIL DATE DELIVERY MODE

3 MONTHS 04/23/2007 PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.



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	Application No.	Applicant(s)
Office Action Summary	10/717,902	AO ET AL.
Office Action Summary	Examiner	Art Unit
	Walter L. Lindsay, Jr.	2812
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address –
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ARANDONE	N. nely filed the mailing date of this communication.
Status	+54	ンマケローキ
1) Responsive to communication(s) filed on	142%	四用为一
	action is non-final.	
3) Since this application is in condition for allowar		secution as to the marite is
closed in accordance with the practice under E	•	
Disposition of Claims		
4)⊠ Claim(s) 1-54 is/are pending in the application.		
4a) Of the above claim(s) <u>15-18 and 34-54</u> is/ar		
5)⊠ Claim(s) <u>19-33</u> is/are allowed.	· · · · · · · · · · · · · · · · · · ·	
6)⊠ Claim(s) <u>1,2,13 and 14</u> is/are rejected.		_
7)⊠ Claim(s) <u>3-12</u> is/are objected to.		
8) Claim(s) are subject to restriction and/or	r election requirement.	* ·
Application Papers		·
9) The specification is objected to by the Examine	r.	
10) The drawing(s) filed on is/are: a) acce		Examiner.
Applicant may not request that any objection to the o	• •	
Replacement drawing sheet(s) including the correcti	- · ·	· •
11) The oath or declaration is objected to by the Ex		
Priority under 35 U.S.C. § 119		
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a))-(d) or (f).
1.⊠ Certified copies of the priority documents	s have been received	
2. Certified copies of the priority documents		on No
3. Copies of the certified copies of the prior		
application from the International Bureau	-	1
* See the attached detailed Office action for a list of	• • • •	ed. Dalla luntith
		WALTER LINDSAY JR.
Attachment(s)		PRIMARY EXAMINER
1) Notice of References Cited (PTO-892)	4) Interview Summary	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P	
Paper No(s)/Mail Date <u>See Continuation Sheet</u> .	6) Other:	

Continuation of Attachment(s) 3). Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date :2/15/2007, 12/07/2006, 9/28/2006, 5/16/2006, 12/22/2005, 11/01/2005, 11/21/2003.

WALTER LINDSAY JR. PRIMARY EXAMINER **Art Unit: 2812**

DETAILED ACTION

Election/Restrictions

- 1. Applicant's election without traverse of claims 1-14 and 19-33 in the reply filed on 1/3/2007 is acknowledged.
- 2. Claims 15-18 and 34-54 have been withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 1/3/2007.

Specification

3. The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 1, 2, 13 and 14 are rejected under 35 U.S.C. 102(e) as being anticipated by Nishiwaki et al. (U.S. Publication No. 2006/0164204 filed 9/12/2003).

Application/Control Number: 10/717,902

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Nishiwaki shows the method as claimed in Figs. 1A-3 in corresponding text as: a semiconductor substrate (1); a magnetic impedance device for detecting a magnetic field wherein the magnetic impedance device (7 and 8) is disposed on the substrate [0043] (claim 1). Nishiwaki teaches that a periphery circuit (bridge circuit) for processing an output signal outputted from the magnetic impedance device wherein the periphery circuit is disposed on the substrate [0042] (claim 2). Nishiwaki teaches that an oxidation protection film (5) disposed on the magnetic impedance device [0048] (claim 13). Nishiwaki teaches that the oxidation protection film is made of silicon oxides, silicon nitrides, or composite film of silicon oxides and silicon nitrides, [0048] (claim 14).

Allowable Subject Matter

- 6. Claims 3-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. Claims 19-33 are allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Walter L. Lindsay, Jr. whose telephone number is (571) 272-1674. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael S. Lebentritt can be reached on (571) 272-1873. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Walter L. Lindsay, Jr. Primary Examiner Art Unit 2812

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
/WL/	5,781,005 (Corresponds to KR-1997- 4106)	7/14/98	VIG et al.		•
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FOREIGN PATENT DOCUMENTS

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		DOCUMENT NUMBER	DATE	COUNTRY	NAME	CLASS	SUB	VEC		NO
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[•] Full English text is available in machine-translated form in JPO (Japanese Patent Office) English language web site at http://www1.ipdl.jpo.go.jp/PA1/cgi-bin/PA1INDEX.

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

WL/		Notice of Preliminary Rejection 2006 for the corresponding Ko copy and English translation th	n from Korean Patent Office issued on April 21, rean patent application No. 10-2006-0008570 (a nereof)		
EXAMINER DATE CONSIDERED /Walter Lindsay Jr/ 04/15/2007					

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		APPLICANT	AO et al.		•	
(FOR	M PŤO-1449)	FILING DATE	November 21, 2003	GROUP	2862	

REFERENCE DESIGNATION

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
. /WL/	.5,471,084 (Corresponds to JP-A-05- 275768 and JP-A-06-188479)	11/28/095	SUZUKI et al.		
WL/	6,732,583 B1 (Corresponds to WO 01/88482)	5/11/04	YASUDA et al.		

FOREIGN PATENT DOCUMENTS

TRANSLATION

		1 .				SUB		NO
	DOCUMENT NUMBER	DATE	COUNTRY	NAME	CLASS	CLASS	YES	Eng, Abstract
WL/	JP-A-2001-289929	10/19/01	JAPAN	·				x
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^{*} Full English text is available in machine-translated form in JPO (Japanese Patent Office) English language web site at http://wwwl.ipdl.jpo.go.jp/PA1/cgi-bin/PA1INDEX.

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	Notice of Reason for Re 26, 2006 for the corresp copy and English transl	fusal from Japanese Patent Office issued on December onding Japanese patent application No. 2003-073900 (a lation thereof)
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/Walter Lindsay Jr/ 04/15/2007		04/15/2007

* PATENT APPLICATION

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3005	APPLICANT	AO et al.			
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REFERENCE DEPENDENTION

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE '	NAME	CLASS	SUB CLASS
	 			 	
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	DOCUMENT NUMBER	DATE	ATE COUNTRY	NAME	CLASS	CLASS	163	Eng. Abstract
WL	JP-A-05-288571	11/2/93	JAPAN					x
/WL/	JP-U-H02-129813	10/25/90	JAPAN				X (Part- ial)	
./WL/	JP-A-06-324061	1.1/25/94	JAPAN			<u> </u>		x
/WL/	JP-A-08-178937	7/12/96	JAPAN					x

^{*} Full English text is available in machine-translated form in JPO (Japanese Patent Office) English language web site at http://www1.ipdl.jpo.go.jp/PA1/cgi-bin/PA1INDEX.

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

/WL/	Decision for Refusal from Japanese Patent Office issued on November 21, 200 for the corresponding Japanese patent application No. 2003-058899 (a copy at English translation thereof)				
/WL/	Decision for Refusal from Japanese Patent Office issued on November 21, 2006 for the corresponding Japanese patent application No. 2003-058900 (a copy and English translation thereof)				
EXAMINER /Walter	Lindsay Jr/ DATE CONSIDERED 04/16/2007				

• PATENT APPLICATION

FORM PTO-1449	ATTY. DKT		T	<u> </u>	Page 1 of 1
IPE	NO.	01-527	SER. NO.	10/717,902	
015 40	APPLICANT	AO et al.			
2,2006	FILING DATE	November 21, 2003	GROUP	2862	
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WL/	6,692,153 B2 (Corresponds to JP-A-2002- 267680)	2/17/04	OHTSUKI et al.		CLASS
,WL/	6,939,050 B2 (Corresponds to JP-A-2002- 267680)	9/6/05	OHTSUKI et al.		
/WL/	2005/0259902 A I (Corresponds to JP-A-2002- 267680)	11/24/05	OHTSUKI et al.		
WL/	6,232,767 B1 (Corresponds to JP-A-10- 115627)	5/15/01	KAWASE et al.		
WL/	6,246,226 B1 (Corresponds to JP-A-10- 115627)	6/12/01	KAWASE et al.		
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WL/	JP-A-06-174409	6/24/94	JAPAN					-
MU ML/	JP-A-09-329619	12/22/97	JAPAN					-
WL/	JP-A-10-300763	11/13/98	JAPAN					+ 💠
l	JP-A-11-230782	8/27/99	JAPAN					-

^{*} Full English text is available in machine-translated form in JPO (Japanese Patent Office) English language web site at http://www1.ipdl.jpo.go.jp/PA1/cgi-bin/PA1INDEX.

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

WL	Notice of Reason for Refusal from Japanese Patent Office issued on August 29, 2006 for the corresponding Japanese patent application No. 2003-058900 (a copy and English translation thereof)
/WL/	Notice of Reason for Refusal from Japanese Patent Office issued on September 5, 2006 for the corresponding Japanese patent application No. 2003-058899 (a copy and English translation thereof)
EXAMINER Walter Lir	ndsay Jr/ DATE CONSIDERED 04/15/2007
Rev. 10/94 (Form	(3.05)

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
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	DOCUMENT NUMBER	DATE	COUNTRY	NAME	CLASS	SUB	YES	NO	
				IVALIE	CLASS	CLASS	123		Eng. Abstract
WL	JP-A-64-021977	1/25/89	JAPAN				-		x
WL/	WO00/25371 (Corresponding to KR 2001- 33533 discussed in the Office Action)	5/4/00	PCT						x
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Full English text is available in machine-translated form in JPO (Japanese Patent Office) English language web site at http://wwwI.ipdl.jpo.go.jp/PAI/cgi-bln/PAIINDEX.

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

/WL/	Office Action issued from Korean Patent Office issued on October 31, 200 the corresponding Korean patent application No. 2003-0082788 (a copy as English translation thereof)				
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FORM PTO-1449	ATTY. DKT NO.	01-527	SER. NO.	10/717,902	-
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	APPLICANT	AO et al.	
	FILING DATE	November 21, 2003	GROUP

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WL/	5,841,276 (English counterpart of JP-A-H08-304432 which is discussed in pages 3-4 of the spec.)	Nov. 24, 1998	Makino et al.		

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	DOCUMENT NUMBER	DATE	COUNTRÝ	NAME	CLASS	SUB CLASS	YES	NO
WL	JP-A-H08-75835* (Discussed in page 1 of the spec.)	3/22/96	JAPAN				X (Abstract)	
/WL/	JP-A-2000-46513* (Discussed in page 4 of the spec.)	2/18/00	JAPAN		·		X (Abstract)	
/WL/	JP-A-2001-116773* (Discussed in page 4 of the spec.)	4/27/01	JAPAN				X (Abstract)	
/WL/	JP-A-2001-228229* (Discussed in page 3 of the spec.)	8/24/01	JAPAN			ő	X (Abstract)	
ML/	JP-A-2001-318131* (Discussed in page 3 of the spec.)	11/16/01	JAPAN				X (Abstract)	
ML/	JP-A-2001-289926*	1019/01	JAPAN				X (Abstract and partial translation)	

Full English text is available in machine-translated form in JPO (Japanese Patent Office) English language web site at http://www1.lpdi.jpo.go.jp/PA1/cgi-bin/PA1INDEX.

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				Walter L. Lindsay, Jr.	2812	Page 1 of 1		
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*	Α	US-2006/0164204	07-2006	Nishiwaki et al.		338/200		
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)

Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.